

**Azadi ka Amrit Mahotsav**  
to commemorate 75 years of progressive Independent India

**REPORT OF THE FIFTEENTH EVENT**

**“Webinar on Research Opportunities  
in Wind Energy”**

NIWE with the support of MNRE has scheduled sixteen events to commemorate 75 years of progressive Independent India (Azadi Ka Amrit Mahotsav).

The fifteenth event, **“Webinar on Research Opportunities in Wind Energy”** was successfully conducted on 12<sup>th</sup> July 2023.

The announcement about the event carrying the instructions was hosted in NIWE website and circulated through Social Media pages along with the Flyer given below.

  
to commemorate the 75 years of  
progressive Independent India



As part of the Azadi ka Amrit Mahotsav, NIWE has scheduled sixteen (16) Events  
with the support of Ministry of New and Renewable Energy (MNRE)

**15<sup>th</sup>**  
EVENT

**Webinar on  
RESEARCH OPPORTUNITIES  
IN WIND ENERGY**

**Speaker**

Smt. M.C. LAVANYA  
Deputy Director (Technical), &  
Unit Chief (R&D), NIWE

12<sup>th</sup> July 2023  
2.00 - 3.00 pm

Registration Link : <https://forms.gle/QNchEoIXTXL0sF4Y9>

For more information, please contact **Dr. P. KANAGAVEL**  
Director and Head, Skill Development and Training & Infrastructure Management Division  
Mobile : +91 9445798007 Ph. : +91-44-22463982 / 83 / 84 E-mail : pkanagavel@niwe.res.in

 **NATIONAL INSTITUTE OF WIND ENERGY**  
An autonomous Research & Development Institution  
Ministry of New and Renewable Energy, Government of India  
CHENNAI

The event was conducted online, enabling large number of participants to take part in the Webinar.

### **REGISTRATION**

After the announcement, 121 candidates registered and 55 participants have attended the event.

### **PROGRAMME SCHEDULE**

<b>Date</b>	<b>Time</b>	<b>Webinar Topic</b>	<b>Speaker</b>
<b>12<sup>th</sup> July 2023</b>	<b>2.00 - 3.00 pm IST</b>	<b>Research Opportunities in Wind Energy</b>	<b>Smt. M.C. LAVANYA</b> Deputy Director (Technical) & Unit Chief, R&D, NIWE

The speaker gave a detailed presentation on Research Opportunities in Wind Energy. The concentration levels of the participants were very high as the presenter had made the session as an interactive session. Many participants had responded to the questions asked by the speaker. Also, the speaker very effectively conveyed the other doubts asked by the participants. The entire event was lively in nature. In addition, they expressed their thanks to NIWE / MNRE for hosting this webinar under the event of Azadi ka Amrit Mahotsav.

# Gallery of the 15<sup>th</sup> Event

AKAM-2022-23 - Webinar on Research Opportunities in Wind Energy - 12th July 2023

38:16

Pop out Chat People 44 Raise React View Notes Rooms Apps More Camera Mic Share Leave

Participants

Type a name

Share invite

Presenters (2)

- SDT Organizer
- M.C.LAVANYA (NIWE) (Guest) Meeting guest

Attendees (42)

- aa (Guest) Meeting guest
- aaaa (Guest) Meeting guest
- Abhilash S P (Guest) Meeting guest
- Ajinkya (Guest) Meeting guest
- Ashish Mishra (Guest) Meeting guest
- Deepesh Kumar (Guest) Meeting guest

NATIONAL INSTITUTE OF WIND ENERGY  
R&D DIVISION  
CURRENT TRENDS IN WIND ENERGY RESEARCH

M.C.LAVANYA (NIWE) (Guest)

Type here to search

USD/INR -0.14%

14:19 12-07-2023

AKAM-2022-23 - Webinar on Research Opportunities in Wind Energy - 12th July 2023

43:42

Pop out Chat People 46 Raise React View Notes Rooms Apps More Camera Mic Share Leave

Participants

Type a name

Share invite

Presenters (2)

- SDT Organizer
- M.C.LAVANYA (NIWE) (Guest) Meeting guest

Attendees (44)

- aa (Guest) Meeting guest
- Abhilash S P (Guest) Meeting guest
- Ajinkya (Guest) Meeting guest
- Ashish Mishra (Guest) Meeting guest
- Deepesh Kumar (Guest) Meeting guest
- Dr K Ilango (Guest) Meeting guest

UNIQUE ABOUT INTEGRATING WIND ENERGY

- Variability:** The energy output of WPPs is variable because the wind speed is variable.  
Time scales: hour-to-hour, day-to-day, month-to-month, and year-to-year variability.
- Uncertainty:** The randomness around the variable pattern of wind speed is the uncertainty. (unpredictability of wind speed)  
Time-scales: year-to-year, month-to-month, day-to-day, hour-to-hour, and smaller/ Larger
- Geographic Diversity, Size, and Distance from Load**
  - Long transmission lines from WPP- Wind energy is usually not proximate to load centers
  - Density of a wind farm
  - Modularity of WPP
- Wind generator is asynchronous in contrast to synchronous conventional generators.
- Wind energy is on priority dispatch.

M.C.LAVANYA (NIWE) (Guest)

Type here to search

32°C Partly sunny

14:25 12-07-2023

AKAM-2022-23 - Webinar on Research Opportunities in Wind Energy - 12th July 2023

43:42

Pop out Chat People Raise React View Notes Rooms Apps More Camera Mic Share Leave

M DP U DR RS AM S

M.C.LAVAN... Dr. P.Valsalal udhayakumar... Dr. NALINI... Rahul Sing... Ashish Mis... View all

### UNIQUE ABOUT INTEGRATING WIND ENERGY

- Variability:** The energy output of WPPs is variable because the wind speed is variable.  
Time scales: hour-to-hour, day-to-day, month-to-month, and year-to-year variability.
- Uncertainty:** The randomness around the variable pattern of wind speed is the uncertainty. (unpredictability of wind speed)  
Time-scales: year-to-year, month-to-month, day-to-day, hour-to-hour, and smaller/ Larger
- Geographic Diversity, Size, and Distance from Load**
  - Long transmission lines from WPP- Wind energy is usually not proximate to load centers
  - Density of a wind farm
  - Modularity of WPP
- Wind generator is asynchronous in contrast to synchronous conventional generators.**
- Wind energy is on priority dispatch.**

M.C.LAVANYA (NIWE) (Guest)

Type here to search

32°C Partly sunny 14:25 12-07-2023

**Participants**

Type a name

Share Invite

**Presenters (2)**

- SDT Organizer
- M.C.LAVANYA (NIWE) (Guest) Meeting guest

**Attendees (44)**

- aa (Guest) Meeting guest
- Abhilash S P (Guest) Meeting guest
- Ajinkya (Guest) Meeting guest
- Ashish Mishra (Guest) Meeting guest
- Deepesh Kumar (Guest) Meeting guest
- Dr K Ilango (Guest) Meeting guest

AKAM-2022-23 - Webinar on Research Opportunities in Wind Energy - 12th July 2023

01:36:03

Chat People Raise React View Notes Rooms Apps More Camera Mic Share Leave

DP RS

Dr. P.Valsalal Rahul Sing...

U M

udhayakumar... manimegalai (G...

DR AM

Dr. NALINI... Ashish Mis...

KC

KRISHANU... View all

S

R. Arirama Krishnan (Guest) PRANABESH DAS (Guest)

Sarathy J Ananta Kumar Das (Guest) Jai Kumar Dhawal (Guest)

1/3

Type here to search

32°C Partly sunny 15:17 12-07-2023

**Participants**

Type a name

Share Invite

- Deepesh Kumar (Guest) Meeting guest
- Dr K Ilango (Guest) Meeting guest
- Dr. NALINI R (Guest) Meeting guest
- Dr P Rajakumar (Guest) Meeting guest
- Dr. P.Valsalal External
- Dr. Sukanta Roga (VNIT) (Guest) Meeting guest
- DR.K.KARTHIKUMAR External
- Dr.S.Sivakumar (Guest) Meeting guest
- E.Satheesh Kumar External
- G. Muthukumarasamy External



AKAM-2022-23 - Webinar on Research Opportunities in Wind Energy - 12th July 2023

01:36:35

Chat People Raise React View Notes Rooms Apps More Camera Mic Share Leave

Show conversation (unread messages)

Participants

Type a name

Share Invite

DP Dr. P.Valsalal U udhayakumar (...)

M manimegalai (G... RK R. Anirama ...

KC KRISHANU ... SP Satendra P...

R Ram (Guest) S View all

CE Chinnarasu E (Guest) Meeting guest

DK Deepesh Kumar (Guest) Meeting guest

DI Dr K Ilango (Guest) Meeting guest

DR Dr NALINI R (Guest) Meeting guest

DR Dr P Rajakumar (Guest) Meeting guest

DP Dr. P.Valsalal External

DR Dr. Sukanta Roga (VNIT) (Guest) Meeting guest

D DR.K.KARTHIKUMAR External

D Dr.S.Sivakumar (Guest) Meeting guest

EK E.Satheesh Kumar External

PRANABESH DAS (Guest) THIRUMARANLD (Guest)

Dr NALINI R (Guest) Rahul Singh (Guest) Sarathy J

Type here to search

32°C Partly sunny 15:18 12-07-2023

AKAM-2022-23 - Webinar on Research Opportunities in Wind Energy - 12th July 2023

01:37:35

Chat People Raise React View Notes Rooms Apps More Camera Mic Share Leave

Some people in this chat are outside your org. It's possible they have message-related policies that will apply to the chat.

Meeting chat

RD Yes

Last read

R&D DIVISION (Guest) 3:14 PM

RD it is a retrospective data

SATHYARAJ J 3:14 PM

SJ K thank you mam

udhayakumar (Guest) 3:14 PM

U very informative session mam

MUTHU R 3:15 PM

MR Thank you to all

Dear Attendees if you have further queries kindly send it to the E-mail [mclavanya@niwe.res.in](mailto:mclavanya@niwe.res.in)

PD PRANABESH... DP Dr. P.Valsalal

U udhayakumar (...)

KC KRISHANU ...

DR DR NALINI ... T THIRUMARAN...

AM Achish Mis... S View all

Perumal S M.C.LAVANYA (NIWE) (Guest)

Kesavamoorthy P (Guest) vinothagan kanakaraj (Guest)

Type here to search

32°C Partly sunny 15:19 12-07-2023